



ESC/SR

ISR Integration



STEEL EAGLE/ARGUS

Program Overview

for

PEOSYSCOM Panel

21 November 2002

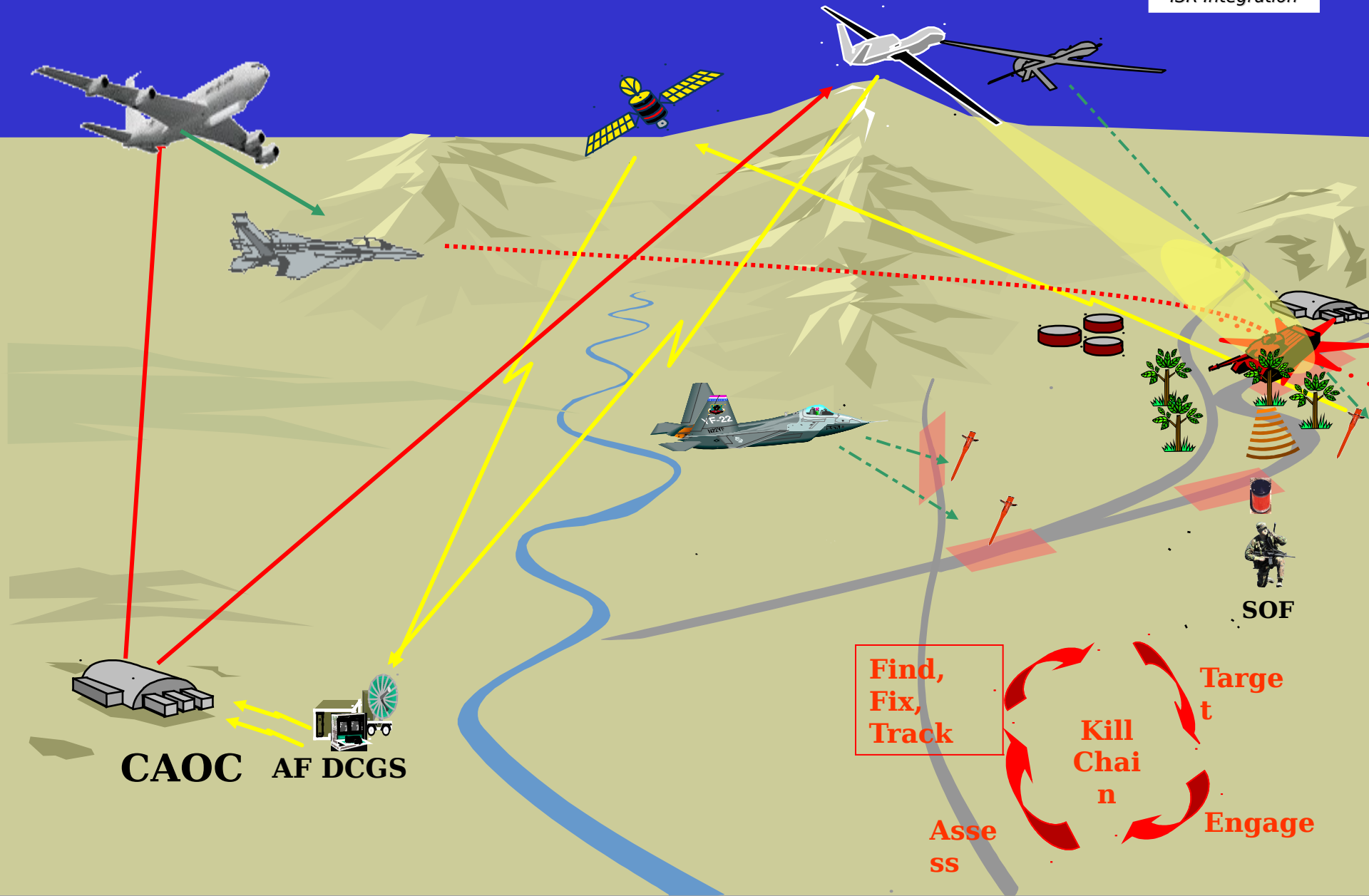
Presented By:
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CONOPS (Notional)



ISR Integration





Background

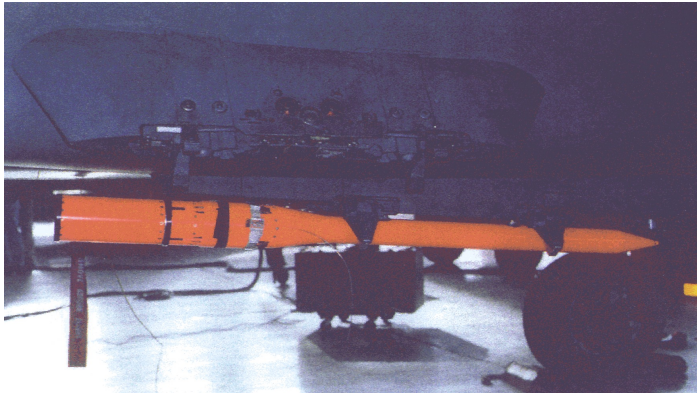


ISR Integration

- **Documented DESERT STORM Deficiency - Couldn't Locate and Kill Time Critical Targets - 1992.**
- **EUCOM C-MNS: Locate and ID "Tanks Under Trees" - 1999.**
- **DIA/CMO & DUSD (AS&C) Funded UGS ACTD - ~\$20M.**
 - **1996-1999**
 - **CMO/TCO Funded Sandia National Laboratory to Develop STEEL EAGLE (SE).**
 - **Demonstrated Air Delivered Unattended Seismic and Acoustic Sensors Could Detect, Locate, and ID TCTs**
- **FY 99/01 ESC/SR funded to Initiate Transition From ACTD to R&D, Dev / Production Acquisition (~\$1.9M)**
- **FY02 Defense Emergency Relief Funding (DERF) Provided for 25 more SE sensors (~\$6.8M) - 9/11**

Initiative

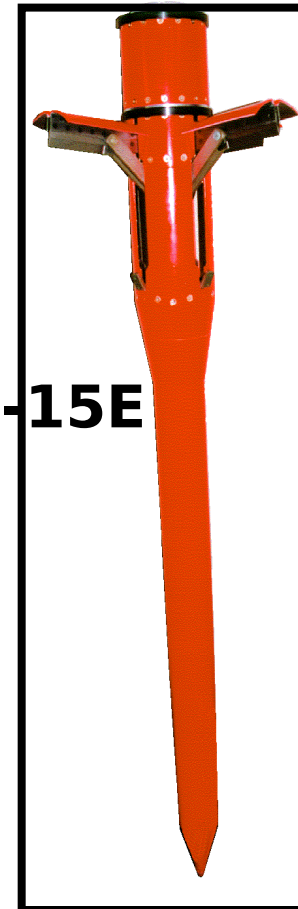
ACTD (STEEL EAGLE)



STEEL EAGLE was certified for the F-15E



**STEEL EAGLE
is a ground
penetration
device**



STEEL EAGLE



STEEL EAGLE to ARGUS



ISR Integration





ARGUS Program Objectives



ISR Integration



Develop, Acquire, Field and Support a Family of Expendable Micro-sensors (Air Delivered and Hand Emplaced) as a Single System to Detect & Identify Time Critical Targets

- Plan for Block Upgrades Through Spiral Development for Additional Sensor Types, Communications, and Target Library**



ARGUS



ISR Integration

Program Description

Provides 24hr ground sensing capability; Detects/ Identifies/Reports vehicle activity

- Cross-cues ISR assets, TCT near real-time

- Bearing/type ID/time of detect/geo-location

- Primarily supports Intelligence

Preparation of the

Program Capabilities

Battlepace Awareness (IPB/PBA) w/ expanding applications. Must be Capable of Finding, Fixing, and Tracking Targets Located Within

500 Meters of the Sensor and Identifying Within 200 Meters.

- Communications Interface

Component of ARGUS Must Ensure

Two-way Global Communications between the sensor and Its Operator Interface.

Program Guidance

- DERF \$\$ provided to restart ARGUS Acquisition Program to follow STEEL EAGLE Contingency Effort.

- PMD in Final Coordination

- PE # 35148F

- CONOPS signed 16 Aug 02

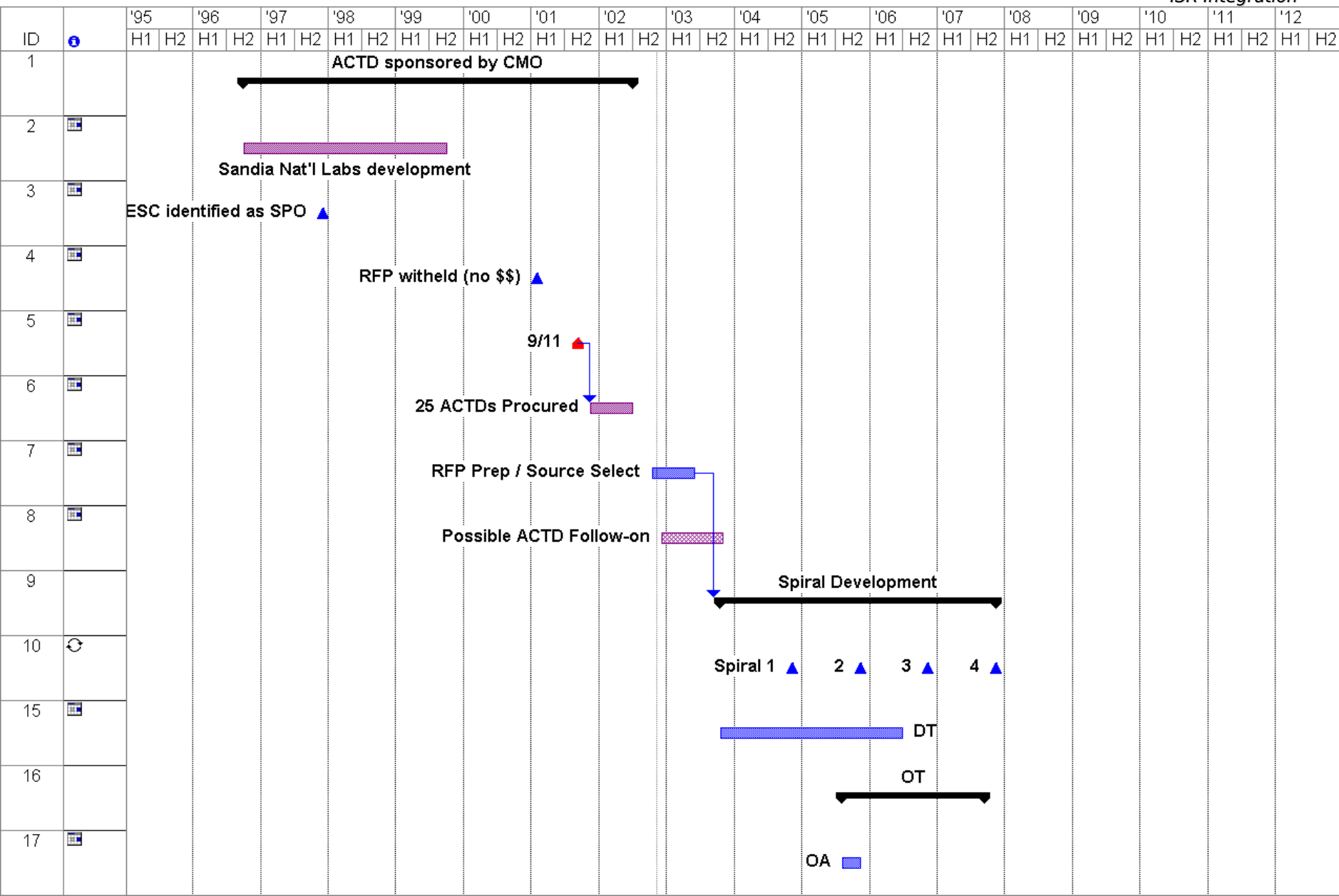
- ORD May 00, MS B ORD in Review

Major Milestones:

DRAFT RFP RELEASE	Dec 02
RFP RELEASE	Jan 03
PROPOSALS RECEIVED	Mar 03
SOURCE SELECTION	Apr 03
SSA DECISION, MS B, CONTRACT AWARD	May 03

Schedule

ISR Integration





U.S. AIR FORCE



Market Research



ISR Integration

- **Objective: Determine Ability of Industry to Respond to ARGUS Incremental Development & Production Requirements**
 - **March 2000, Received Thirty- Eight (38) Responses - Before Program was Cancelled**
 - **Jun 2002, Received Fifty-Two (52) Responses**
- **Twelve (12) of Twenty (20) Prime Contractors Notified as Highly Competitive**



Acquisition Strategy



ISR Integration

- Capitalize on Current Investments (GFI)
- Respond to User Need/Schedule
 - Certified Aero body w/ SE Capability - Spiral 1
 - Future Spirals Contractor Defined
 - Secure Comm, Anti-Tamper, GPS Accreditation
- Open Systems Approach
 - Maximum Use of COTS/GOTS
 - Future Sensors Identified as new Block
- Requirements Managed by Overarching IPT



U.S. AIR FORCE



ARGUS Program Summary



ISR Integration

- **ARGUS provides early and continuous ISR capability in austere locations**
- **Provides cross-cueing of other ISR platforms**
- **Excellent candidate for additional capabilities**



ISR Integration

BACKUP SLIDES

Notional ARGUS Architecture

